

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A dental treatment device comprising:
a pre-shaped, non-custom dental tray suitable for placement over at least one of a person's upper or lower dental arches, wherein the dental tray is formed from a thermoplastic material and comprises:
at least two side walls defining a trough and having a substantially horseshoe-shaped configuration at least approximately corresponding to a person's dental arch,
wherein the at least two side walls have a thickness ~~in a range of about 0.05 mm to~~ less than about 1 mm and are flexible so that, when the non-custom dental tray is placed over a person's teeth, the tray can at least partially conform to the person's teeth during use; and
a quantity of a dental treatment composition loaded within the trough of the dental tray, the dental treatment composition being sufficiently viscous and sticky so that, when the dental tray is placed over a person's teeth, the dental treatment composition will hold and retain the dental tray over the person's teeth and cause the tray to at least partially conform to the person's teeth.
2. (Original) A dental treatment device as defined in claim 1, wherein the dental tray includes a front side wall, a rear side wall, and a bottom wall interconnecting the front and rear side walls.
3. (Original) A dental treatment device as defined in claim 1, wherein an interior surface of at least one wall of the dental tray is textured so as to include a plurality of indentations.

4. (Original) A dental treatment device as defined in claim 3, wherein the indentations comprise at least one of a taffeta texture, tiny dimples, or a diamond grid texture.

5. (Original) A dental treatment device as defined in claim 1, wherein the dental tray is sized and configured so as to fit over at least a portion of a person's upper dental arch.

6. (Original) A dental treatment device as defined in claim 1, wherein the dental tray is sized and configured so as to fit over at least a portion of a person's lower dental arch.

7. (Original) A dental treatment device as defined in claim 1, wherein the dental tray is formed from a mixture comprising ethylene vinyl acetate (EVA) and polypropylene (PP).

8. (Original) A dental treatment device as defined in claim 7, wherein the mixture comprises from about 10% to about 30% by weight PP, with the balance consisting essentially of EVA.

9. (Original) A dental treatment device as defined in claim 7, wherein the mixture comprises from about 15% to about 25% by weight PP, with the balance consisting essentially of EVA.

10. (Currently Amended) A dental treatment device as defined in claim 1, wherein the at two side walls of the dental tray have a thickness ~~from about 0.075 mm to~~ less than about 0.75 mm.

11. (Currently Amended) A dental treatment device as defined in claim 1, wherein the at two side walls of the dental tray have a thickness ~~from about 0.1 mm to~~ less than about 0.5 mm.

12. (Original) A dental treatment device as defined in claim 1, wherein one or more of the side walls are contoured to approximately correspond to the curvature of labial or buccal surfaces of a person's teeth.

13. (Original) A dental treatment device as defined in claim 1, wherein the dental tray is sized and configured so as to approximately terminate at or near a person's gingival margin when the dental tray is placed over the person's teeth.

14. (Original) A dental treatment device as defined in claim 1, wherein the dental treatment composition comprises at least one of an antimicrobial agent, a remineralizing agent, an anti-tartar, a desensitizing agent, or an anti-plaque agent.

15. (Original) A dental treatment device as defined in claim 1, wherein the dental treatment composition comprises at least one dental bleaching agent.

16. (Original) A dental treatment device as defined in claim 1, wherein the dental treatment composition comprises at least one thickening agent.

17. (Original) A dental treatment device as recited in claim 1, wherein the quantity of a dental treatment composition is loaded within the trough of the dental tray as a bead that rises about two-third the height of the dental tray.

18. (Original) A dental treatment device as recited in claim 1, wherein the dental treatment composition is such that it forms a dry skin on a surface thereof prior to use.

19. (Original) A dental treatment device as recited in claim 1, wherein the dental treatment device is contained within a sealed package prior to use in order to protect and increase the stability of the dental bleaching composition.

20. (Original) A method of treating a person's teeth comprising placing a treatment device according to claim 1 over at least a portion of a person's teeth for a desired time period.

21. (Currently Amended) A dental bleaching device comprising:

a pre-shaped, non-custom dental tray suitable for placement over at least one of a person's upper or lower dental arches, wherein the dental tray is formed from a thermoplastic material and comprises:

at least two side walls defining a trough and having a substantially horseshoe-shaped configuration at least approximately corresponding to a person's dental arch,

wherein at least one of the two side walls has a textured inner surface,

wherein the at least two side walls have a thickness ~~in a range of about 0.05 mm to~~ less than about 1 mm and are flexible so that, when the non-custom dental tray is placed over a person's teeth, the tray can at least partially conform to the person's teeth during use; and

a quantity of a dental bleaching composition loaded within the trough of the dental tray, the dental bleaching composition being sufficiently viscous and sticky so that, when the dental tray is placed over a person's teeth, the dental treatment composition will hold and retain the dental tray over the person's teeth and cause the tray to at least partially conform to the person's teeth.

22. (Currently Amended) A dental bleaching device as defined in claim ~~20~~ 21, wherein the at least two side walls have a thickness ~~in a range of about 0.1 mm to~~ less than about 0.5 mm.

23. (Currently Amended) A dental bleaching device as defined in claim ~~20~~ 21, wherein one or more of the side walls are contoured to approximately correspond to the curvature of labial or buccal surfaces of a person's teeth.

24. (Currently Amended) A pre-shaped, non-custom dental tray suitable for placement over at least a portion of one of a person's upper or lower dental arches, wherein the dental tray is formed from a mixture comprising ethylene vinyl acetate (EVA) and polypropylene (PP), the dental tray further comprising:

at least two walls defining a hollow interior portion, wherein an interior surface of at least a portion of the at least two walls includes a plurality of indentations therein for holding a treatment composition against a person's teeth when the dental tray is in use; and

wherein the at least two walls have a thickness ~~in a range of about 0.05 mm to~~ less than about 1 mm and are flexible so that, when the non-custom dental tray is placed over a person's teeth, the tray can at least partially conform to the person's teeth during use.

25. (Original) A dental tray as defined in claim 24, wherein one or more of the side walls are contoured to approximately correspond to the curvature of labial or buccal surfaces of a person's teeth.

26. (Original) A dental tray as defined in claim 24, wherein an interior surface of at least one wall of the dental tray is textured so as to include a plurality of indentations.

27. (New) A dental treatment device as defined in claim 16, wherein the thickening agent comprises at least one of polyvinyl pyrrolidone, carboxypolymethylene, carboxymethyl cellulose, cellulose gum, fumed silica, polyethylene glycol, or polypropylene glycol.

28. (New) A dental treatment device as defined in claim 16, wherein the thickening agent comprises at least one tackifying agent that causes the dental treatment composition to be sticky and viscous.

29. (New) A dental treatment device as defined in claim 16, wherein the thickening agent comprises a mixture of polyvinyl pyrrolidone and at least one of carboxypolymethylene, carboxymethyl cellulose, or a cellulose gum.

30. (New) A dental bleaching device as defined in claim 21, the dental bleaching composition comprising at least one tackifying agent.

31. (New) A dental bleaching device as defined in claim 30, the tackifying agent comprising polyvinyl pyrrolidone.

32. (New) A dental bleaching device as defined in claim 30, the tackifying agent further comprising at least one of carboxypolymethylene, carboxymethyl cellulose, or a cellulose gum.

33. (New) A dental bleaching device as defined in claim 21, the dental bleaching composition having a substantially dry skin on a surface thereof prior to use.